

## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2000

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0303131F Minimum Essential Emergency  
Communications Network (MEECN)

COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	37,624	45,285	15,302	2,970	2,437	2,032	2,075	Continuing	TBD
672832 VLF/LF System Improvements	22,260	21,809	2,719	1,446	1,176	1,452	1,495	Continuing	TBD
674521 DIRECT	3,321	1,171	1,236	1,135	873	290	290	Continuing	TBD
674610 MEECN EHF	12,043	22,305	11,347	389	388	290	290	Continuing	TBD
Quantity of RDT&E Articles	9	11	4	0	0	0	0	0	TBD

(U) **A. Mission Description**

MEECN systems provide assured communications connectivity between the National Command Authorities (NCA) and the strategic deterrent forces. Currently these systems include the Modified Miniature Receive Terminal (MMRT) with High Data Rate (HIDAR) mode for the E-4B and E-6B aircraft, a VLF/LF modification to the Minuteman Launch Control Center (LCC), the Defense Improved Emergency Message Automated Transmission System (IEMATS) Replacement Command and Control Terminals (DIRECT), and Extremely High Frequency (EHF) modification to the Minuteman LCC.

(U) **B. Budget Activity Justification**

This program is in Budget Activity 7 - Operational System Development, because it supports work on currently operating systems.

(U) **C. Program Change Summary (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2000 PBR)	38,788	45,907	15,438	
(U) Appropriated Value	39,230	45,907		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-442	-15		
b. Small Business Innovative Research	-1,232			
c. Omnibus or Other Above Threshold Reprogram		-249		
d. Below Threshold Reprogram	278			

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Communications Network (MEECN)(U) C. Program Change Summary (\$ in Thousands) Continued

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
e. Rescissions	-210	-358		
f. Other				
(U) Adjustments to Budget Years Since FY 2000 PBR			-136	
(U) Current Budget Submit/FY 2001 PBR	37,624	45,285	15,302	TBD
(U) <u>Significant Program Changes:</u>				
BTR in FY99: Support to DIRECT: +\$800K; support to other AF priorities: -\$512K.				

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BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0303131F Minimum Essential Emergency Communications Network (MEECN)</b>				PROJECT <b>672832</b>	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
672832    VLF/LF System Improvements	22,260	21,809	2,719	1,446	1,176	1,452	1,495	Continuing	TBD
<p>(U) <b><u>A. Mission Description</u></b></p> <p>The Modified Miniature Receive Terminal (MMRT) Program will modify existing Miniature Receive Terminals (MRTs) and provide High Data Rate (HIDAR) capability for installation on the following platforms as a minimum: the E-4B, National Airborne Operations Center (NAOC); and the E-6B, Take Charge and Move Out (TACAMO). This program will make VLF/LF receivers fully interoperable. MRT is a Very Low Frequency/Low Frequency (VLF/LF) receiver without HIDAR already designed, developed, and installed on the B-1B and B-52H bombers. The MRTs to be modified for the MMRT program will be removed from the B-1Bs and some retired B-52s. HIDAR is a Joint Staff-directed effort to provide a fast and interoperable MEECN mode. The MMRT program develops and tests HIDAR modifications required to ensure the E-4 and E-6 platforms are interoperable in MEECN.</p> <p>ICBM Launch Control Center (LCC) VLF/LF RDT&amp;E and Production tasks were contractually combined with the MEECN EHF effort. The combined program is referred to as the Minuteman MEECN Program (MMP). The ICBM Prime Integrating Contract (through OO-ALC) is being used as a contracting vehicle. Requirements, estimates and schedules remain the same.</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b></p> <p>(U) \$8,730                      Continued common MMRT and airborne integration development</p> <p>(U) \$3,100                      MMRT Testing</p> <p>(U) \$1,370                      Communications Evaluation Program (CEP)/Studies and Analysis</p> <p>(U) \$9,060                      ICBM LCCs VLF/LF integration and development (part of MMP)</p> <p>(U) \$22,260                    Total</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b></p> <p>(U) \$5,000                      Continue common MMRT and airborne integration development</p> <p>(U) \$2,091                      MMRT airworthiness and nuclear certification</p> <p>(U) \$1,411                      Communications Evaluation Program (CEP)/Studies and Analysis</p> <p>(U) \$13,307                    ICBM LCC VLF/LF integration and development (part of MMP)</p> <p>(U) \$21,809                    Total</p>									
Project 672832			Page 3 of 15 Pages				Exhibit R-2A (PE 0303131F)		

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BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0303131F Minimum Essential Emergency Communications Network (MEECN)</b>			PROJECT <b>672832</b>		
(U) <b><u>A. Mission Description Continued</u></b>									
(U) <u>FY 2001 (\$ in Thousands)</u>									
(U) \$1,409 MMRT airworthiness and nuclear certification									
(U) \$1,310 Communications Evaluation Program (CEP)/Studies and Analysis									
(U) \$2,719 Total									
(U) <b><u>B. Project Change Summary</u></b>									
None									
(U) <b><u>C. Other Program Funding Summary (\$ in Thousands)</u></b>									
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) APPN 10, Aircraft Procurement - AF, (MEECN, PE 0303131F, BA 5, P-1 XX)	0	5,003	18,550	7,236	1,506	0	0	0	32,295
(U) <b><u>D. Acquisition Strategy</u></b>									
Modified Miniature Receive Terminal (MMRT) Program. Program to satisfy both the Air Force and Navy requirements via a joint effort with the Air Force Electronics Systems Center, Hanscom AFB, MA, as the lead agency. Modifies existing Miniature Receive Terminals (MRTs). EMD contract awarded in FY96 for the E-4B (National Airborne Operations Center (NAOC)); E-6B (Take Charge and Move Out (TACAMO)); and an option for the ICBM Launch Control Centers (LCCs). Airborne MMRT production contract award planned for FY00. Deployment of airborne Air Force and Navy MMRT units will be complete by 2003. ICBM LCC VLF/LF EMD began in FY99. ICBM LCC VLF/LF EMD tasks and production were coupled with the MEECN EHF effort contractually. The combined program is referred to as the Minuteman MEECN Program (MMP). The ICBM Prime Integrating Contract (through OO-ALC) is being used as a contracting vehicle.									
(U) <b><u>E. Schedule Profile</u></b>									
		<u>FY 1999</u>				<u>FY 2000</u>		<u>FY 2001</u>	
		1	2	3	4	1	2	3	4
(U) Complete EMD for E-4B Aircraft								X	
(U) MMRT Aircraft Milestone III Decision						X			
(U) EMD Contract Award - ICBM LCC VLF/LF			*						
(U) Preliminary Design Review - LCC VLF/LF				*					
Project 672832		Page 4 of 15 Pages				Exhibit R-2A (PE 0303131F)			

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BUDGET ACTIVITY

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PE NUMBER AND TITLE

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Communications Network (MEECN)

PROJECT

672832

(U) E. Schedule Profile ContinuedFY 1999FY 2000FY 2001

	1	2	3	4	1	2	3	4	1	2	3	4
(U) Critical Design Review - LCC VLF/LF				*								
(U) Milestone III Decision - LCC VLF/LF											X	
(U) Production Start - LCC VLF/LF											X	

\* Indicates completed task

X Indicates planned task

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								DATE February 2000			
BUDGET ACTIVITY					PE NUMBER AND TITLE				PROJECT		
07 - Operational System Development					0303131F Minimum Essential Emergency Communications Network (MEECN)				672832		
(U) A. Project Cost Breakdown (\$ in Thousands)											
					FY 1999		FY 2000		FY 2001		
(U) Prime Contract (MMRT)					7,830		5,000		1,189		
(U) ICBM VLF/LF Development (MMP)					9,060		13,307		0		
(U) Test											
(U) Air Force					0		0		0		
(U) Navy					3,100		1,100		0		
(U) Program Management Administration (PMA)					300		600		100		
(U) SE/TA					600		391		120		
(U) CEP/Studies and Analysis					1,370		1,411		1,310		
(U) Total					22,260		21,809		2,719		
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
<u>Contractor or Government</u>		<u>Contract Method/Type or Funding Vehicle</u>		<u>Award or Obligation Date</u>		<u>Performing Activity EAC</u>		<u>Project Office EAC</u>		<u>Total Prior to FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
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<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
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<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
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<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<u>Budget FY 1999</u>	
<u>Performing Activity</u>		<u>or Funding Vehicle</u>		<u>Obligation Date</u>		<u>Activity EAC</u>		<u>Office EAC</u>		<	

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000		
BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
07 - Operational System Development				0303131F Minimum Essential Emergency Communications Network (MEECN)				672832	
(U) <u>Performing Organizations Continued:</u>									
<u>Test and Evaluation Organizations</u>									
NavAir Warfare Center		MIPR	Annual	1,954	3,100	1,100	0	6,154	
Air Force		MIPR	Annual	204			0	204	
(U) <u>Government Furnished Property:</u>									
		<u>Contract</u>							
	<u>Method/Type</u>	<u>Award or</u>							
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
N/A									
<u>Support and Management Property</u>									
N/A									
<u>Test and Evaluation Property</u>									
N/A									
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Subtotals</u>				<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				47,336	16,890	18,307	1,189	TBD	TBD
Subtotal Support and Management				3,980	2,270	2,402	1,530	TBD	TBD
Subtotal Test and Evaluation				2,158	3,100	1,100		0	6,358
Total Project				53,474	22,260	21,809	2,719	TBD	TBD

Project 672832

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Exhibit R-3 (PE 0303131F)

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)							DATE <b>February 2000</b>		
BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0303131F Minimum Essential Emergency Communications Network (MEECN)</b>				PROJECT <b>674521</b>	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
674521     DIRECT	3,321	1,171	1,236	1,135	873	290	290	Continuing	TBD
<p>This project was established in Jan 96 to consolidate efforts related to DIRECT planned for accomplishment in PE 0603851F, ICBM Modernization Dem/Val (BPAC 1024, ICBM C2 Applications), PE 0604851F, ICBM Modernization EMD (BPAC 13C4, Strategic C4 Program), PE 0101213F, Minuteman Squadrons, and 0303131F, MEECN (BPAC 2832, VLF/LF System Improvements).</p> <p>(U) <b><u>A. Mission Description</u></b>  The Defense IEMATS Replacement Command and Control Terminals (DIRECT), which is the Improved Emergency Message Automated Transmission System (IEMATS) replacement program, is a Strategic Nuclear Command and Control (C2) system directly supporting the Chairman of the Joint Chiefs of Staff (CJCS) and the National Command Authorities (NCA). DIRECT will provide for all current IEMATS requirements, including the build, release, and transmission of Emergency Action Messages (EAM) to allow the CJCS and warfighters to remain responsive to NCA directives. This program will procure system hardware for seven unified command centers, a software maintenance facility and two alternate command centers. DIRECT will be compatible with the Defense Message System (DMS) when it supplants the Automated Digital Network (AUTODIN) and will interface with all other EAM distribution communications systems. AUTODIN is scheduled for closure not later than the 2QCY00.</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b>  (U) \$2,891                      Continued DIRECT Engineering and Manufacturing Development (EMD)  (U) \$230                        Communications Evaluation Program (CEP)/Studies and Analysis  (U) \$200                        Test  (U) \$3,321                      Total</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>  (U) \$921                        DIRECT EMD  (U) \$250                        Communications Evaluation Program (CEP)/Studies and Analysis  (U) \$1,171                      Total</p>									
<div style="display: flex; justify-content: space-between;"> <span>Project 674521</span> <span>Page 8 of 15 Pages</span> <span>Exhibit R-2A (PE 0303131F)</span> </div>									



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## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

February 2000

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0303131F Minimum Essential Emergency  
Communications Network (MEECN)

PROJECT

674521

(U) **A. Mission Description Continued**(U) **FY 2001 (\$ in Thousands)**

(U) \$988 DIRECT/DMS Interface EMD  
 (U) \$248 Communications Evaluation Program (CEP)/Studies and Analysis  
 (U) \$1,236 Total

(U) **B. Project Change Summary**

None

(U) **C. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) APPN 16, Other Procurement - AF, Electronics and Telecommunications Equip (MEECN, PE 0303131F, BA 3, P-1 XX)	1,502	5,122	1,584	2,076	1,085	0	0	0	23,028

(U) **D. Acquisition Strategy**

DIRECT Program. A contract for EMD was awarded to GTE Government Systems (now General Dynamics-Communications Systems), Needham, MA on 12 Jul 96. A contract modification for production (using Other Procurement, AF) was awarded 11 Aug 98.

(U) **E. Schedule Profile**

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Development Test and Evaluation			*									
(U) Functional Qual Test			*									
(U) Begin DIRECT/DMS Interface EMD										X		

\* Indicates completed task  
 X Indicates planned task

Project 674521

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Exhibit R-2A (PE 0303131F)

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000				
BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0303131F Minimum Essential Emergency Communications Network (MEECN)</b>				PROJECT <b>674521</b>			
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>											
					<u>FY 1999</u>		<u>FY 2000</u>		<u>FY 2001</u>		
(U)	Prime Contract				1,591		587		588		
(U)	Test				200		0		0		
(U)	Program Management Administration (PMA)				300		84		100		
(U)	SE/TA				400		300		300		
(U)	MITRE				600		0		0		
(U)	CEP/Studies and Analysis				230		200		248		
(U)	Total				3,321		1,171		1,236		
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>											
(U) <b><u>Performing Organizations:</u></b>											
	<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 1999</u>	<u>Budget FY 1999</u>	<u>Budget FY 2000</u>	<u>Budget FY 2001</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>											
	GTE	SS/CPAF	Jul 96	30,290	30,290	27,480	1,591	587	588	Continuing	TBD
	National Security Agency (NSA)	MIPR	Annually	2,500	2,500	2,500				0	2,500
<u>Support and Management Organizations</u>											
	SE/TA [ASEC, ABACUS, MCR, ATT, ANSER]	LOE	Annual	N/A		2,027	400	300	300	Continuing	TBD
	MITRE	LOE	Annual	N/A		2,068	600	0	0	Continuing	TBD
	JHU-APL(CEP)	LOE	Annual	N/A		423	230	200	248	Continuing	TBD
	PMA	Various	Annual	N/A		645	300	84	100	Continuing	TBD
<u>Test and Evaluation Organizations</u>											
	Various	Various	Annual	N/A	406	271	200	0	0	Continuing	TBD
Project 674521											
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Exhibit R-3 (PE 0303131F)											

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000	
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT	
07 - Operational System Development				0303131F Minimum Essential Emergency Communications Network (MEECN)			674521	
(U) <u>Government Furnished Property:</u>								
	<u>Contract</u>							
	<u>Method/Type</u>	<u>Award or</u>						
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
<u>Product Development Property</u>								
N/A								
<u>Support and Management Property</u>								
NA								
<u>Test and Evaluation Property</u>								
N/A								
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Subtotals</u>				<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
Subtotal Product Development				29,980	1,591	587	588	TBD
Subtotal Support and Management				5,163	1,530	584	648	TBD
Subtotal Test and Evaluation				271	200	0	0	TBD
Total Project				35,414	3,321	1,171	1,236	TBD

Project 674521

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RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE <b>February 2000</b>	
BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0303131F Minimum Essential Emergency Communications Network (MEECN)</b>				PROJECT <b>674610</b>	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
674610 MEECN EHF	12,043	22,305	11,347	389	388	290	290	Continuing	TBD
<p>(U) <b><u>A. Mission Description</u></b>            This MEECN project will provide reliable, secure, and survivable communications in the Extremely High Frequency (EHF) band. Specifically, this effort is currently focused on replacing the satellite-based, ground communication links with Minuteman ICBM forces. It supplants the ICBM Super High Frequency (SHF) Satellite Terminal (ISST) receipt, providing force direction/execution, and the Ultra High Frequency (UHF) report-back links. ISST relies upon the Single Channel Transponder (SCT) package aboard the Defense Satellite Communications System (DSCS). The SCT will not be flown on the DSCS after 2003. Extending the use of SCT aboard DSCS is not practical. The UHF links depend upon the Air Force Satellite Communications (AFSATCOM) packages hosted aboard the Fleet Satellite Communications (FLTSATCOM) satellites. FLTSATCOM satellites are past their life expectancy. MEECN EHF is required to meet redundancy standards established by national security directives. MEECN EHF was identified as a new start effort in the FY99 budget documentation. This project was combined contractually with the ICBM LCC VLF/LF tasks from Project 2832 and together are referred to as the Minuteman MEECN Program (MMP).</p> <p>(U) <b><u>FY 1999 (\$ in Thousands)</u></b>            (U) \$10,427 Engineering and Manufacturing Development (EMD)            (U) \$1,568 Integration and Test            (U) \$48 Communications Evaluation Program (CEP)/Studies and Analysis            (U) \$12,043 Total</p> <p>(U) <b><u>FY 2000 (\$ in Thousands)</u></b>            (U) \$15,067 Continue EMD            (U) \$7,105 Integration and Test            (U) \$133 Communications Evaluation Program (CEP)/Studies and Analysis            (U) \$22,305 Total</p>									
<div style="display: flex; justify-content: space-between;"> <span>Project 674610</span> <span>Page 12 of 15 Pages</span> <span>Exhibit R-2A (PE 0303131F)</span> </div>									

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## RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

February 2000

BUDGET ACTIVITY

07 - Operational System Development

PE NUMBER AND TITLE

0303131F Minimum Essential Emergency  
Communications Network (MEECN)

PROJECT

674610

(U) A. Mission Description Continued(U) FY 2001 (\$ in Thousands)

(U) \$6,439 Continue EMD  
 (U) \$4,758 Integration and Test  
 (U) \$150 Communications Evaluation Program (CEP)/Studies and Analysis  
 (U) \$11,347 Total

(U) B. Project Change Summary

None

(U) C. Other Program Funding Summary (\$ in Thousands)

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) APPN 14, Missile Procurement -AF, (MEECN, PE 0303131F, BA 3, P-1 12)	0	0	48,069	43,502	8,563	6,724	5,795	0	112,653

(U) D. Acquisition Strategy

The ICBM Prime Integrating Contract (through OO-ALC) is being used as a contracting vehicle for the Minuteman LCC VLF/LF and EHF modifications known as Minuteman MEECN Program (MMP).

(U) E. Schedule Profile

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) EMD Contract Award		*										
(U) Preliminary Design Review			*									
(U) Critical Design Review				*								
(U) Milestone III Decision											X	
(U) Production start											X	
* Indicates completed task												
X Indicates planned task												

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000	
BUDGET ACTIVITY <b>07 - Operational System Development</b>				PE NUMBER AND TITLE <b>0303131F Minimum Essential Emergency Communications Network (MEECN)</b>			PROJECT <b>674610</b>	
(U) <b><u>A. Project Cost Breakdown (\$ in Thousands)</u></b>								
					<u>FY 1999</u>		<u>FY 2000</u>	<u>FY 2001</u>
(U)	Prime Contract				11,195		20,684	10,497
(U)	Test				0		788	0
(U)	Program Management Administration (PMA)				200		100	100
(U)	SE/TA				400		400	400
(U)	MITRE				200		200	200
(U)	CEP				48		133	150
(U)	Total				12,043		22,305	11,347
(U) <b><u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u></b>								
(U) <b><u>Performing Organizations:</u></b>								
	<u>Contractor or</u>	<u>Contract</u>						
	<u>Government</u>	<u>Method/Type</u>	<u>Award or</u>	<u>Performing</u>	<u>Project</u>			
	<u>Performing</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Activity</u>	<u>Office</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>
	<u>Activity</u>	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>
							<u>FY 2001</u>	<u>Budget to</u>
								<u>Complete</u>
								<u>Total</u>
								<u>Program</u>
<u>Product Development Organizations</u>								
	TRW	SS/CPAF	Mar 99			0	11,195	20,684
							10,497	Continuing
								TBD
<u>Support and Management Organizations</u>								
	SE/TA [SRC, MCR, ATT, ANSER]	LOE	Annual			0	400	400
							400	Continuing
								TBD
	MITRE	LOE	Annual			0	200	200
							200	Continuing
								TBD
	PMA	Various	Annual			0	200	100
							100	Continuing
								TBD
	CEP	LOE	Annual			0	48	133
							150	Continuing
								TBD
<u>Test and Evaluation Organizations</u>								
	Various	Various	Annual			0	0	788
							0	0
								788
Project 674610								
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Exhibit R-3 (PE 0303131F)								

## UNCLASSIFIED

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2000	
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT	
07 - Operational System Development				0303131F Minimum Essential Emergency Communications Network (MEECN)			674610	
(U) Government Furnished Property:								
	<u>Contract</u>							
	<u>Method/Type</u>	<u>Award or</u>						
<u>Item</u>	<u>or Funding</u>	<u>Obligation</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Description</u>	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>	<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
<u>Product Development Property</u>								
N/A								
<u>Support and Management Property</u>								
N/A								
<u>Test and Evaluation Property</u>								
N/A								
				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>
<u>Subtotals</u>				<u>to FY 1999</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Complete</u>
Subtotal Product Development				0	11,195	20,684	10,497	TBD
Subtotal Support and Management				0	848	833	850	TBD
Subtotal Test and Evaluation				0	0	788	0	0
Total Project				0	12,043	22,305	11,347	TBD

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